

BIBLIOGRAPHY.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

Alt, Eugen.

Mittlere Temperaturverteilung in Süddeutschland. 2. Frostgrenzen und Frosthäufigkeit in Süddeutschland. Munich. 1921. 7 p. maps. 33 cm. [Excerpted from Deutsches meteorologisches Jahrbuch f. 1920, Bayern.]

American insurance company.

The national underwriter, a weekly newspaper of insurance. Hail insurance number. Newark. 1921. 32 p. 35 cm.

Balldit, Albert.

Etudes élémentaires de météorologie pratique. Paris. 1921. 347 p. 26 cm.

Bemporad, Giulio.

Risultati di osservazioni pireliometriche eseguite contemporaneamente a tre diverse altezze. Naples. 1914. 14 p. 25 cm. (R. Osservatorio astronomico di Capodimonte. Contributi geofisici, no. 1.)

Bonacina, L. C. W.

The definition and scope of climatology. [MS.] [20] p. 35 cm.

Bouyoucos, George.

Degree of temperature to which soils can be cooled without freezing. [Excerpted from Journal of agricultural research, Washington, v. 20, no. 4, Nov. 15, 1920, p. 267-269.]

Bräak, C.

Climatic conditions on the principal air routes in the East Indian archipelago. Weltevreden. 1920. p. 265-278. 25 cm. (Overgedrukt uit het Naturkundig tijdschrift voor Ned.-Indië, deel 80, 3. Afl.)

Contarino, F.

Media aritmetica, media probabile e media più probabile. Naples. 1915. 143 p. 32 cm. (R. Osservatorio di Capodimonte. Memorie no. 1.)

Daingerfield, Lawrence Hite.

The climate of Hawaii. [Excerpted from Mid-Pacific mag., Honolulu, 1921, v. 20, nos. 5 & 6.]

Descombes, Paul.

La forêt régulatrice des eaux. Bordeaux. 1921. 4 p. 27 cm. (Assoc. centrale pour l'aménagement des montagnes. Office de défense forestière et pastorale.)

Dietzius, Robert.

Das Abtreiben der Flugzeuge im Winde. Wien. n. d. 8 p. 25 $\frac{1}{2}$ cm. (Aus Mitteilungen des k. k. Österreichischen Aéro-Clubs.)

Dietzius, Robert.

Der Nebel im Herbst und Winter in Wien und Lemberg. Wien. 1919. 12 p. 26 cm. (Aus Mitteilungen des Österreichischen Aéro-Clubs.)

Enquist, Fredrik Karl.

Der Einfluss des Windes auf die Verteilung der Gletscher. Uppsala. 1916. 108 p. 25 $\frac{1}{2}$ cm. (Sonderabdruck aus dem Bull. of the Geol. inst. of Upsala, v. 14.)

Fuchs, Federico G.

Meteorología del Perú. Lima. 1921. 22 p. 25 cm. [Excerpted from Boletín de la Soc. geográfica de Lima, t. 34, trim. 1.]

Geraldinus, Johannus.

De meteoris. Paris. 1613. 10,300, 7 p. 17 cm.

Gulik, G. van.

Leerboek der meteorologie. Eerste boek. 2. druk. Groningen. 1920. 146 p. 25 cm.

Håkonson-Hansen, M. K.

Om vier og vind i Trondhjem i tidsrummet 1885-1915. Trondhjem. 1920. 80 p. fold. charts. 24 cm.

Hesselberg, Th.

Om betydningen av, et der i Skandinavien oprettes aerologiske stationer. Kristiania. 1919. 18 p. 23 cm. (Norske meteologiske institut.)

Humphreys, William Jackson.

Meteorological acoustics. (Reprinted from the Journal of the Franklin Institute, Philadelphia, May, 1921, p. 581-617.)

Italy. R. Servizio aerologico.

Determinazione della direzione e della velocità del vento a varie altezze dell'atmosfera per mezzo dei palloni piloti. Rome. 1916. 10 p. plates. 27 cm.

Italy. R. Servizio aerologico.

Nozioni di aerologia e astronomia ad uso degli aerostieri, aviatori, e dirigibili. Ferrara. 1918. 41 p. 31 cm.

Karsten, Hugo.

Untersuchungen über die Eisverhältnisse im Finnischen Meerbusen und im nördlichen Teile der Ostsee. I. Beobachtungen während der Winter 1897-1902. Helsingfors. 1911. 91 p. 34 cm. (Finnl. hydrogr.-biol. Untersuchungen no. 6.)

Keränen, J.

Über die Temperatur des Bodens und der Schneedecke in Sodankylä nach Beobachtungen mit Thermoelementen. Helsingfors. 1920. 200 p. 25 cm.

Kunitomi, Sin-iti, & Takô, Hikotarô.

Correlation between the fluctuation of the sunspots area and terrestrial precipitation. Tôkyô. 1921. p. 95-125. 31 cm. (Japan. Central met'l observatory. Bulletin, Tôkyô, vol. 3, no. 3.)

Merz, Alfred.

Die Oberflächentemperatur der Gewässer. Methoden und Ergebnisse. Berlin. 1920. 42 p. 27 cm. (Veröffentlichungen des Inst. f. Meereskunde, Neue Folge. A. Geogr.-naturw. Reihe, H. 5.)

Mohorovičić, Stjepan.

Aerologische studije iz kotorskoga zaljeva uz neke neke općene primjedbe. Aerologische Studien aus der Bucht von Kotor (Bocche di Cattaro) nebst allgemeinen Bemerkungen. Zagreb. 1917. 107, 25 p. 24 $\frac{1}{2}$ cm. (Rada Jugoslavenske akad. znanosti i umjetnosti, Zagreb, 1917, knj. 217, i Izvješća matem.-prirodoslovnoga razreda, Zagreb, 1917. sve. 8.) [Text in Croatian; résumé in German.]

Mohorovičić, Stjepan.

istraživanje vjetra u Radziechowu u Galiciji. Dio 1-2. Untersuchungen des Windes in Radziechow in Galizien. Zagreb. 1918, 1920. 194, 6, 40 p. 24 $\frac{1}{2}$ cm. (Rada Jugoslavenske akad. znanosti i umjetnosti, Zagreb, 1918, knj. 219, i 1920, knj. 223. Deutsche Auszug in Izvješća matem.-prirodoslovnoga rasreda, Zagreb, 1920, sve. 13/14.)

Norway. Meteorologiske institut.

Middelverdier, Maksima og minima (snedybde, sneens vannverdi og antall dager med nedbør og snedekke.) Kristiania. 1921. 61 p. 35 cm. (Nedbøriakttagelser i Norge, v. 25, 1919.)

Norway. Meteorologiske institut.

Oversigt over luftens temperatur og nedbøren i Norge i aaret 1918. Kristiania. 1920. 24 p. 23 cm. (Saertryk av Landbruksdirektørens beretning for 1918.)

Otetelișanu, Enric, & Elefteriu, G. D.

Considerații generale regimului precipitațiilor atmosferice în Romania. [Excerpted from Buletinul, Soc. regale Române de geographie, Bucharest, v. 39, 1920, p. 209-22.]

Pernter, Hans.

Meteorologische Messungen im Flugzeuge. Vienna. n. d. 10 p. 25 cm. (Aus Mitteilungen des Österreichischen Aéro-Clubs.)

Quayle, E. T.

Possibilities of modifying climate by human agency, with special application to south-eastern Australia. Melbourne. 1921. p. 115-132. 25 cm. (Reprinted from Proceedings of the Royal society of Victoria, vol. 23, new series.)

Ridgley, Douglas C.

The geography of Illinois. Chicago. 1921. 385 p. 18 cm. [Chap. 5. Weather and climate, p. 66-91.]

Rouch, Jules.

La vitesse ascensionnelle des ballons-pilotes. [Excerpted Direction des recherches scientifiques et industrielles et des inventions, Bull. officiel, Paris, mars, 1921, p. 174-189.]

Schereshevsky, Ph.

Les radiogrammes météorologiques internationaux. [Excerpted from la Nature, Paris, nos. 2455 & 2456, Apr. 23 and 30, 1921.]

- Schmidt, Wilhelm.** Zur Schätzung des Niederschlages auf den Meeren. n. p. n. d. p. 18-24. 23 cm.
- Schmidt, Wilhelm.** Die Verbreitung von Samen und Blütenstaub durch die Luftbewegung. Wien. 1918. p. 318-328. 23 cm. (Aus der Österreichischen botanischen Zeitschrift, 1918, nr. 10-12.)
- Shepherd, E. S.** The composition of the gases of Kilauea. n. p. 1919. 4 p. 23 cm. (Reprinted from Bull. Hawaiian volcano observatory, vol. 7, no. 7, July, 1919.)
- Spain. Inst. geográfico y estadístico.** Instrucciones para el Servicio meteorológico. Primer estudio de las climatologías locales como preparación de la nacional. Madrid. 1916. 44 p. 24 cm.
- Spain. Inst. geográfico y estadístico.** Instrucciones para el Servicio meteorológico. Observaciones pluviométricas. (3d ed.) Madrid. 1917. 20 p. 24 cm. [Bound with the above: Observación de las nieblas, 7 p.; Observación de las tormentas, 11 p.]
- Stenhouse, E.** Simple lessons on the weather, for school use and general reading. London. [1921.] 135 p. 19 $\frac{1}{2}$ cm.
- Swick, Clarence J.** Modern methods for measuring the intensity of gravity. Washington. 1921. 96 p. 23 cm. (Dept. of commerce. U. S. Coast and geodetic survey. Serial no. 150.)
- Utah. Industrial commission.** Report. Period July 1, 1918, to June 30, 1920. Kaysville, Utah. [1921.] 473 p. 23 cm. ["Climate of Utah," by J. Cecil Alter, p. 176-187.]
- Witting, Rolf.** Untersuchungen zur Kenntnis der Wasserbewegungen und der Wasserumsetzung in den Finnl. umgebenden Meeren. I. Der Bottnische Meerbusen in den Jahren 1904 und 1905. 1. Teil. Helsingfors. 1908. 246 p. 18 fold. plates. 34 cm. (Finnl. hydrogr.-biol. Untersuchungen, no. 2.)
- Wright, R. C., & Taylor, G. F.** Freezing injury to potatoes when undercooled. Washington. 1921. 15 p. 24 cm. (U. S. Dept. of agr. Bull. 916.)
- Wüst, Gustav.** Die Verdunstung auf dem Meere. Berlin. 1920. 95 p. 27 cm. (Veröffentlichungen des Inst. f. Meereskunde, Neue Folge. A. Geogr.-naturw. Reihe, H. 6.)
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- RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.**
- C. F. TALMAN, Professor in Charge of Library.
- The following titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.
- Aeronautical journal.** London. v. 25. June, 1921.
- Gundry, P. G. Effect of temperature and altitude of aerodrome in the taking off of aeroplanes. p. 290-300.
- Akademie der Wissenschaften. Sitzungsberichte.** Vienna. Abt. IIa. Bd. 129, H. 4. 1920.
- Kerner-Marilaun, Fritz. Geographische Analyse der ozeanischen Temperaturen am 45. Parallel. p. 387-418.
- American society of heating and ventilating engineers. Journal.** New York. v. 27. May, 1921.
- Lissauer, A. W. Drying as an air-conditioning problem. p. 365-374.
- Archives des sciences physiques et naturelles.** Genève. v. 3. Mai-juin, 1921.
- Henrici, Marguerite. Influence de la conductibilité de l'air sur la photosynthèse. Note préliminaire. p. 276-290.
- Engineering news-record.** New York. v. 86. June 9, 1921.
- Disastrous Colorado floods follow great rainstorm. p. 1008.
- Engineering news-record.** New York. v. 87. July 7, 1921.
- Colorado rainfall records and flood estimate. Intense local precipitation east of mountains and succession of local floods reported by officials. p. 23-24.
- France. Académie des sciences. Comptes rendus.** Paris. T. 172. 1921. Idrac. Études expérimentales sur le vol à voile. p. 1161-1164. (9. mai.) Vallot, J. Étude de la radiation diffuse de la voûte céleste, comparée à la radiation solaire directe. p. 1164-1167. (9. mai.) Lyot, Bernard. Aurore boréale dans la nuit du 14 au 15 mai 1921 et phénomènes magnétiques simultanés. p. 1230-1231. (17. mai.) Dongier, R. Les oscillations simultanées de la pression et du vent au sommet de la Tour Eiffel et leur relation avec la surface de grain (squall surface de J. Bjerkness) d'une dépression. p. 1304-1306. (23. mai.) Esclangon, Ernest. Sur l'aurore boréale du 14-15 mai 1921 observée à Strasbourg. p. 1286. (23. mai.) Boutaric, A. Mesures actinométriques et polarimétriques aux altitudes élevées. p. 1519-1521. (13. juin.) Moles, E. & others. Sur la densité de l'air de Madrid et ses petites variations. p. 1600-1602. (20. juin.) Delambre, E. & Schereschewsky, Ph. Sur une méthode nouvelle de prévision des variations barométriques. p. 1673-1676. (27. juin.) Störmer, Carl. Sur l'aurore boréale du 13 mai 1920. p. 1672-1673. (27. juin.)
- Geographical teacher.** London. v. 11, pt. 2, no. 60, 1921.
- Visher, Stephen S. Aids to teaching climate. p. 45-51.
- Geographische Zeitschrift.** Leipzig. 27. Jahrg. 5./6. H. 1921.
- Hesse, Richard. Über Akklimatisation. p. 97-114.
- Great Britain. Meteorological office.** London. Monthly meteorological charts, North Atlantic ocean. July, 1921.
- Smith, H. T. Marine meteorology. History and methods.
- International review of the science and practice of agriculture.** Monthly bulletin of agricultural intelligence and plant diseases. Rome. v. 11. 1920.
- Descombes, P. Unseen condensation of water vapour due to trees. p. 290-291. (March.) [Abstract from Comptes rendus.]
- Hendry, G. W. Effect of meteorological factors on the growth, morphology and yield of the tepary bean (*Phaseolus acutifolius* var. *latifolius*). p. 418-422. (April.) [Abstract from Journ. American society of agronomy.]
- Shrell, C. A. Comparative studies on evaporation carried out under identical experimental conditions, in the U. S. A. p. 416-418. (April.) [Abstract from Plant world.]
- Japan. Central meteorological observatory. Bulletin.** Tokyo. v. 3, no. 3, 1921.
- Takō, Hikotarō, & Kunitomi, Sin-iti. On the correlation between the fluctuation of the sun-spots area and the terrestrial precipitation. p. 95-125.
- Journal de physique et le radium.** Paris. T. 2. Mai, 1921.
- Dunoyer, L., & Reboul, G. Problème de la prévision du temps. p. 129-141. [Abst. in this REVIEW, p. 352.]
- Meteorologica pratica.** Montecassino. Anno 2. Gen.-Feb., 1921.
- Favarò, G. A. Annibale Riccò, nel campo della meteorologia. p. 26-27.
- Meteorological magazine.** London. v. 56. 1921.
- Chree, C. Recent work on aurora. p. 85-87. (May.)
- Brooks, C. E. P. Sunspots and weather. p. 113-117. (June.)
- Meteorologische Zeitschrift.** Braunschweig. Bd. 38. 1921.
- Hahn, R. Interdiurne Differenzen der Maximal- und Minimaltemperaturen in Sachsen 1906 bis 1915. p. 134-139. (Mai.)
- Lopez, E. Über Nortes in Mexiko. p. 158-159. (Mai.)
- Mörikofer, Walter. Albert Riggensbach. p. 148-149. (Mai.) [Obituary.]
- Myrbach, Otto. Die Polarfront und Dove. p. 129-134. (Mai.)
- Schmauss, A. Die erkenntnistheoretischen Grenzen der Wettervorhersee in unseren Breiten. p. 149-151. (Mai.)
- Schmauss, A. Polarfront. Äquatorialfront. p. 156-157. (Mai.)
- Schreiber. Über die sogenannte Glättung von Kurven. p. 151-154. (Mai.)
- Schwerdt, Hans G., & Loebe, W. W. Eine nomographische Tafel zur Luftdruckreduktion. p. 139-142. (Mai.) [Discussion in July REVIEW.]
- Wegener, Kurt. Die Erzeugung und Erhaltung der Tiefdruckgebiete. p. 154-156. (Mai.)
- Bosch, F. J. Aus der Werkstatt von J. & A. Bosch. p. 184-185. (Juni.)